

Application No.: 09/965417

Case No.: 56233US002

**Amendments to the Claims**

The following Listing of Claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims**

1. (Currently Amended) A method of making a film, comprising:  
providing a roll of a polymeric reflective polarizing film element having a polarization axis:  
forming a first alignment layer on a surface of a the polymeric reflective polarizing film element having a polarization axis;  
disposing a liquid crystal material on the first alignment layer; and  
forming an aligned liquid crystal layer from the liquid crystal material to produce a polarization rotator element configured and arranged to rotate a polarization axis of the light that is transmitted by the polymeric reflective polarizing film element by at least 5 degrees from the polarization axis of the polymeric reflective polarizing film element to align with another polarization axis;  
wherein forming the aligned liquid crystal layer comprises fixing the liquid crystal material in an aligned configuration.
2. (Currently Amended) The method of claim 1, wherein forming a first alignment layer comprises forming a first alignment layer from a portion of the polymeric reflective polarizing film element.
3. (Currently Amended) The method of claim 2, wherein forming a first alignment layer comprises stretching at least a portion of the polymeric reflective polarizing film element to form an aligned surface.
4. (Currently Amended) The method of claim 1, wherein forming a first alignment layer comprises forming a first alignment layer on the polymeric reflective polarizing film element.

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5. (Original) The method of claim 1, further comprising disposing a second alignment layer on the liquid crystal material.
6. (Original) The method of claim 5, wherein disposing a second alignment layer comprises forming a second alignment layer on the liquid crystal material.
7. (Original) The method of claim 5, wherein disposing a second alignment layer comprises forming the second alignment layer on a substrate and disposing the second alignment layer and substrate on the liquid crystal material.
8. (Original) The method of claim 7, further comprising disposing liquid crystal material on the second alignment layer and contacting the liquid crystal material on the second alignment layer with the liquid crystal material on the first alignment layer.
9. (Original) The method of claim 7, wherein forming the second alignment layer on a substrate comprises forming the second alignment layer on a substrate comprising a second polarizing element.
10. (Currently Amended) The method of claim 9, wherein forming an aligned liquid crystal layer comprises forming an aligned liquid crystal layer from the liquid crystal material, wherein the aligned liquid crystal layer is configured and arranged to rotate a polarization of light normally incident on the aligned liquid crystal layer from a polarization axis of the polymeric reflective polarizing film element to the polarization axis of the second polarizing element which differs by at least 5 degrees.
11. (Previously Presented) The method of claim 10, wherein forming an aligned liquid crystal layer comprises forming the aligned liquid crystal layer with a twist angle that is substantially smaller than a phase retardation of the polarization rotator element.

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12. (Canceled)

13. (Previously Presented) The method of claim 1, wherein forming an aligned liquid crystal layer comprises forming the aligned liquid crystal layer with a twist angle that is substantially smaller than a phase retardation of the polarization rotator element

14. (Previously Presented) The method of claim 1, wherein forming an aligned liquid crystal layer comprises forming an aligned liquid crystal layer using only a single alignment layer.

15. (Currently Amended) A method of making a film, comprising;  
providing a roll of a polymeric reflective polarizing film element having a polarization axis;  
forming a first alignment layer on a surface of a the polymeric reflective polarizing film element having a polarization axis;  
disposing a liquid crystal material on the first alignment layer;  
disposing at least one additional layer on the liquid crystal material; and  
directing light through the at least one additional layer to the liquid crystal material to cure the liquid crystal material and form an aligned liquid crystal layer to produce a polarization rotator element configured and arranged to rotate a polarization axis of the light that is transmitted by the polymeric reflective polarizing film element by a fixed angle of at least 5 degrees from the polarization axis of the polymeric reflective polarizing film element to align with another polarization axis.

16. (Original) The method of claim 15, wherein disposing at least one additional layer comprises disposing a second alignment layer on the liquid crystal material.

17. (Original) The method of claim 16, wherein disposing a second alignment layer comprises forming the second alignment layer on a substrate and disposing the second alignment layer and substrate on the liquid crystal material.

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18. (Original) The method of claim 16, wherein disposing a second alignment layer and directing light comprise

- disposing a photo-orientable material on the liquid crystal material; and
- directing polarized light at an orientation direction through the photo-orientable material to the liquid crystal material to cure and orient the photo-orientable material at the orientation direction to form the second alignment layer and to cure the liquid crystal material and form an aligned liquid crystal layer to produce a polarization rotator element.

19. (Currently Amended) The method of claim 16, wherein forming a first alignment layer, disposing a second alignment layer, and directing light comprise

- disposing a first photo-orientable material on the surface of the polymeric reflective polarizing film element;
- disposing a second photo-orientable material on the liquid crystal material; and
- directing polarized light at an orientation direction through the second photo-orientable material to the liquid crystal material and the first photo-orientable material to a) cure and orient the first photo-orientable material at the orientation direction to form the first alignment layer, b) cure and orient the second photo-orientable material at the orientation direction to form the second alignment layer, and c) cure the liquid crystal material and form an aligned liquid crystal layer to produce a polarization rotator element.

20. (Original) The method of claim 15, wherein directing light comprises directing ultraviolet light through the at least one additional layer to the liquid crystal material to cure the liquid crystal material and form an aligned liquid crystal layer to produce a polarization rotator element.

21. (Currently Amended) A method of making a film, comprising:

- unwinding a first film comprising a polymeric reflective polarizing film element having a polarization axis;

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forming a first alignment layer on a surface of the polymeric reflective polarizing film element;

disposing a liquid crystal material on the first alignment layer;

unwinding a second film;

forming a second alignment layer on a surface of the second film;

contacting the first and second films so that the liquid crystal material is disposed between the first and second alignment layers; and

forming an aligned liquid crystal layer from the liquid crystal material to produce a polarization rotator element configured and arranged to rotate a polarization axis of the light that is transmitted by the polymeric reflective polarizing film element by at least 5 degrees from the polarization axis of the polymeric reflective polarizing film element to align with another polarization axis;

wherein forming the aligned liquid crystal layer comprising fixing the liquid crystal material in an aligned configuration.

22. (Previously Presented) The method of claim 21, further comprising forming a liquid crystal material on the second alignment layer prior to contacting the first and second films.

23. (Previously Presented) The method of claim 21, wherein fixing the liquid crystal material in an aligned configuration comprises directing light through the second film and second alignment layer to the liquid crystal material to cure the liquid crystal material and form an aligned liquid crystal layer to produce a polarization rotator element.